

PATENT ABSTRACTS

[your application]

9/5/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0015140276 *Drawing available*
WPI Acc no: 2005-489838/200550
XRPX Acc No: N2005-399006
Method for dynamically associating mobile ports to virtual local area network, involves receiving message from silent device in response to message previously received from device, at port which is associated to virtual local area network
Patent Assignee: ALCATEL (COGE); MAGRET V (MAGR-I); ROSE L (ROSE-I); ALCATEL LUCENT (COGE)
Inventor: MAGRET V; ROSE L

Patent Family (4 patents, 37 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1551133	A1	20050706	EP 200430785	A	20041224	200550	B
US 20050198383	A1	20050908	US 2003749993	A	20031231	200559	E
EP 1551133	B1	20081119	EP 200430785	A	20041224	200878	E
DE 602004017830	E	20090102	DE 602004017830	A	20041224	200914	E
			EP 200430785	A	20041224		

Priority Applications (no., kind, date): US 2003749993 A 20031231; EP 200430785 A 20041224

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1551133	A1	EN	11	6		
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					
EP 1551133	B1	EN				
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR					
DE 602004017830	E	DE			Application	EP 200430785
					Based on OPI patent	EP 1551133

Alerting Abstract EP A1
NOVELTY - The command associating a silent device e.g. printer with respect to **virtual local area network (VLAN)**, is received. The response message from the device, is transmitted to mobile ports in response to the command. Another response message from the device in response to the previous message, is received at a port which is identified. The identified **port** is **associated** to the **VLAN** which is associated with the device.
DESCRIPTION - An INDEPENDENT CLAIM is also included for **switching node**.

USE - For dynamically **associating** mobile **ports** of **switching node** (claimed) to **virtual local area network (VLAN)**.

ADVANTAGE - Allows **silent devices** to be **identified** automatically. Allows the devices to be reachable even when they move from one mobile port to another.

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DIALOG(R)File 350: Derwent WPIX
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0014803849 *Drawing available*
WPI Acc no: 2005-151535/200516
XRPX Acc No: N2005-127859
Network element information detection method e.g. for personal computer, involves storing information retrieved from network element using communication protocol, in database
Patent Assignee: MCCASLAND P (MCCA-I)
Inventor: MCCASLAND P

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050027855	A1	20050203	US 2003631437	A	20030730	200516	B

Priority Applications (no., kind, date): US 2003631437 A 20030730

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20050027855	A1	EN	8	3	

Alerting Abstract US A1
NOVELTY - A database is accessed to determine whether network element identifier which is generated in response to a polling command, is present in the database. A communication protocol which is obtained in response to accessing database, is used to retrieve information from network element. The retrieved information is stored in database.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. network element information detecting system; and
2. computer program product for detecting network element information.

USE - For detecting information such as physical location, internet protocol (IP) address, circuit identification (ID), port information such as **port** identifier **related** to network element **such as personal** computer (PC), **printer**, hub, router and **switch** connected to network such as **local** area network (LAN), wide area network (WAN) and internet.
ADVANTAGE - The information related to all types of network elements are detected easily and efficiently.
DESCRIPTION OF DRAWINGS - The figure shows the flow diagram of the network element information detection system.

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DIALOG(R)File 350: Derwent WPIX
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0017828269 *Drawing available*
WPI Acc no: 2008-G48728/200841
XRPX Acc No: N2008-509185

Role-based configuration providing method for e.g. router, involves retrieving configuration settings that are associated with selected port role definition, and applying settings to port of network element

Patent Assignee: CISCO TECHNOLOGY INC (CISC-N)
Inventor: ANTEUNIS D; BERL S; RIGGINS C; STAMLER A

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7380025	B1	20080527	US 2003681548	A	20031007	200841	B

Priority Applications (no., kind, date): US 2003681548 A 20031007

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 7380025	B1	EN	17	6	

Alerting Abstract US B1

NOVELTY - The method involves discovering information that identifies a network element e.g. server, coupled to a port of another network element e.g. router, or describes a device type of the former network element, where the discovered information is based on a value in a field of a message sent by the former network element. Port of the latter network element is **associated** with a **port** role definition based on the discovered information. Configuration settings **associated** with the selected **port** role definition are retrieved, and are applied to the port of the latter network element.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a computer-readable storage medium comprising a set of instructions to perform a method for providing a role-based configuration of a port of network elements
2. an apparatus comprising a network interface coupled to a data network for **receiving packet** flows.

USE - Method for providing a role-based configuration of a port of network elements e.g. router, **switch**, phone, router, storage device, and end station element such as personal computer, workstation, server, **printer** and phone, in a computer network e.g. wide area network and local area network.

ADVANTAGE - The method automatically provides a role-based configuration of a port of the network elements, based on discovery of devices that are connected to the port, and describing the roles of the port or devices in the computer network.

DESCRIPTION OF DRAWINGS - The drawing shows a flow diagram illustrating a high level operation of a method for role-based configuration of a port.

17/5/7 (Item 2 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0016806172 *Drawing available*
WPI Acc no: 2007-521235/200751
Related WPI Acc No: 2004-068500
XRPX Acc No: N2007-399364

Network device`s e.g. laptop, geographic location information e.g. longitude, discovering and maintaining method for use by network administrator, involves determining location of network device by accessing port memory location

Patent Assignee: CISCO TECHNOLOGY INC (CISC-N)

Inventor: GAI S; ORAN D R

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7194354	B1	20070320	US 2001884239	A	20010619	200751	B
			US 2003697896	A	20031030		

Priority Applications (no., kind, date): US 2001884239 A 20010619; US 2003697896 A 20031030

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 7194354	B1	EN	16	7	Continuation of application	US 2001884239
					Continuation of patent	US 6665611

Alerting Abstract US B1

NOVELTY - The method involves interconnecting a network device e.g. laptop, to ports (302a- 302g) of an intermediate network device e.g. network **switch** (124). A message is transmitted to the **switch**, where the message is provided with physical coordinates such as latitude, of the network device. The network device is disconnected and another network device e.g. voice over Internet protocol (VoIP) phone, is interconnected to the ports. Physical location of the latter network device is determined by accessing a memory **associated** with the **ports** and by activating global positioning system (GPS) receiver.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. an intermediate network device comprising a geographical location recording/reporting entity
2. a method for discovering and using geographic location information
3. a computer readable medium comprising instructions for performing a method for discovering and using geographic location information.

USE - Used for discovering and maintaining geographic location information such as physical coordinate e.g. longitude and latitude, for a network device such as portable personal computer e.g. laptop, notebook and palm personal computer (PC), end station, **printer**, scanner, server, network **switch**, bridge, voice over Internet protocol (VoIP) phone, router, and **switch**-router, interconnected for forming a computer network such as local area network (LAN), wide area network (WAN), intranet, in office building, and campus, by a network administrator, and also used for emergency calling service.

ADVANTAGE - The method automatically discovers and maintains geographic location information for the network devices in time effective manner without prone to error, facilitates enhanced emergency service calls from voice over Internet protocol (VoIP) telephones, and enables an emergency operator to direct emergency personnel to a correct location.

17/5/8 (Item 3 from file: 350)
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0014611905 *Drawing available*
WPI Acc no: 2004-793878/200478
XRPX Acc No: N2004-625585

Data communication switching domain e.g. optical bridge, for end-nodes e.g. PC, has edge and backbone ports, each associated with receive wavelength based on virtual network membership, for passing data received from other port

Patent Assignee: READER S A (READ-I)
Inventor: READER S A

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040208570	A1	20041021	US 2003418336	A	20030418	200478	B

Priority Applications (no., kind, date): US 2003418336 A 20030418

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20040208570	A1	EN	10	5	

Alerting Abstract US A1

NOVELTY - The domain (200) has edge ports and backbone ports coupled to transmitting/receiving nodes, and coupled to each other by a wavelength division multiple access optical transmission medium. Each **port** is **associated** with transmit wavelength for transmitting data to other **ports**. Each **port** is **associated** with receive wavelength based on virtual network membership for selectively passing data received from the other ports.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of transmitting data between ports.

USE - Used for providing data communication between end-nodes e.g. personal computer (PC), work station, server and **printer** of a local area network (LAN) e.g. IEEE 802.3 wired Ethernet LAN and IEEE 802.11 wireless LAN.

ADVANTAGE - The **ports** are **associated** with receive wavelength based on virtual network membership for selectively passing data received from the other ports, thus maintaining integrity of virtual network boundaries within a network infrastructure.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of an optical bridge and a network manager within a bridged local area network infrastructure.

- 200 Optical switching domain
- 210 Network manager
- 220 Bridge manager
- 240 Optical transmitter
- 260 Optical receiver

17/5/10 (Item 5 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0013679350 *Drawing available*
WPI Acc no: 2003-775957/**200373**
XRPX Acc No: N2003-621614

Data communication method in computer network, involves selecting one output port connecting secondary switch and destination, based on data frame from source, and transmitting data frame to destination, through selected port

Patent Assignee: NORTEL NETWORKS LTD (NELE)
Inventor: FITE D B; ILYADIS N; SALETT R M

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6496502	B1	20021217	US 1998106801	A	19980629	200373	B

Priority Applications (no., kind, date): US 1998106801 A 19980629

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6496502	B1	EN	16	7	

Alerting Abstract US B1

NOVELTY - A data frame is encoded with a trunk identifier **assigned** for an input **port** of a primary **switch** and the encoded data frame containing a source address, a destination address and the trunk identifier is transmitted to a secondary **switch**. The secondary **switch** selects an output port connected to a destination station, based on the **received data frame** and **transmits** the data **frame** to the destination station, through the selected port.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. network apparatus; and
2. computer network.

USE - For data communication between source and destination stations through computer network (claimed) which interconnect computing resources, workstations, servers, **printers**, modems and storage device.

ADVANTAGE - Since the data **frame** is **transmitted** to the destination **station**, through **the** selected output port, the wastage of bandwidth of the extra links is reduced, and the cost of the network is reduced.

DESCRIPTION OF DRAWINGS - The figure shows a schematic view of the network system.

17/5/13 (Item 8 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0012505171 *Drawing available*
WPI Acc no: 2002-453052/**200248**
XRPX Acc No: N2002-357189

Addressing method of passive network device in data-over-cable system, involves storing network address assigned to passive device in configuration file for active device comprising network address protocol stack

Patent Assignee: 3COM CORP (TCOM)
Inventor: BESER N B

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6370147	B1	20020409	US 199865129	A	19980423	200248	B

Priority Applications (no., kind, date): US 199865129 A 19980423

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6370147	B1	EN	46	21	

Alerting Abstract US B1

NOVELTY - A passive network device assigned with a network address, does not have a network address protocol stack to obtain its own network address. The network address of passive device is stored in a configuration file for active network device which has a network address protocol stack. The active network device sends a message comprising assigned network address of passive device to a cable modem termination system.

DESCRIPTION - An INDEPENDENT CLAIM is included for a computer readable medium storing addressing program of passive network devices.

USE - For communications in computer network for data-over-cable system. Is also applicable in two-way cable connection system.

ADVANTAGE - Allows passive network devices such as **printer**, facsimile, computer or other passive network devices without the DHCP protocol stack to be used in data-over-cable system. The data link layer which **transmits** error-free **frames** of data can be used in a data-over-cable system with a two-way cable connection.

DESCRIPTION OF DRAWINGS - The figure shows a flow diagram illustrating a method for addressing passive network devices in a data-over-cable system.

21/5/2 (Item 2 from file: 350)
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0015006147 *Drawing available*
WPI Acc no: 2005-354052/200536
XRPX Acc No: N2005-289097

Bridge uplink port identifying method for use in local network, involves identifying port associated with interface index retrieved from forwarding database table of selected bridge as uplink port of adjacent bridge

Patent Assignee: BROOKS J D (BROO-I); FLUKE CORP (FLUK-N)
Inventor: BROOKS J D

Patent Family (8 patents, 35 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050089051	A1	20050428	US 2003695240	A	20031027	200536	B
EP 1528721	A2	20050504	EP 2004253745	A	20040623	200536	E
CN 1612544	A	20050504	CN 200410071307	A	20040719	200558	E
EP 1528721	B1	20071003	EP 2004253745	A	20040623	200765	E
DE 602004009261	E	20071115	DE 062004009261	A	20040623	200777	E
			EP 2004253745	A	20040623		
US 7394773	B2	20080701	US 2003695240	A	20031027	200845	E
DE 602004009261	T2	20080703	DE 062004009261	A	20040623	200846	E
			EP 2004253745	A	20040623		
CN 101404595	A	20090408	CN 200810130180	A	20040719	200929	E

Priority Applications (no., kind, date): US 2003695240 A 20031027; US 2003695240 A 20031027

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050089051	A1	EN	5	2		
EP 1528721	A2	EN				
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR					
EP 1528721	B1	EN				
Regional Designated States,Original	DE FR GB					
DE 602004009261	E	DE			Application	EP 2004253745
					Based on OPI patent	EP 1528721
DE 602004009261	T2	DE			Application	EP 2004253745
					Based on OPI patent	EP 1528721

Alerting Abstract US A1

NOVELTY - The method involves sending an Internet control message protocol ping to bridges (20, 22, 24) to store interface indices in forwarding data base tables. A simple network monitoring protocol query is sent to a selected bridge to retrieve stored contents of its forwarding data base table. A **port associated**

with an interface index retrieved from the selected bridge is identified as an uplink port of the adjacent bridge.

USE - Used for identifying a bridge uplink port in a local network (claimed) to test and analyze the local network.

ADVANTAGE - The method correctly identifies the bridge uplink port within the network, so that an accurate network map can be drawn, and bridge ports where specific devices e.g. PC or **printer**, are connected can be easily **located**.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of a local network.

10 Local network

12 Server

14, 16, 18 Hubs

20, 22, 24 Bridges

50 Test instrument

FULL-TEXT PATENTS

[no relevant results]

NPL

13/5/1 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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0016192597 **E.I. COMPENDEX No:** 2004458448487

Enabling ubiquitous computing in heterogeneous environments by physically scoped multicast

Issue Title: Proceedings - 2001 International Conference on Third Generation Wireless and Beyond (Key Function of World Wireless Congress)

Trossen, Dirk; Chaskar, Hemant; Krishnamurthi, Govind

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Editor(s): Lu, W.W.

Editor(s) Affil.: Stanford University, United States

Conference Title: Proceedings - 2001 International Conference on Third Generation Wireless and Beyond (Key Function of World Wireless Congress)

Conference Location: San Francisco, CA United States **Conference Date:** 20020528-20020531

Sponsor: Nokia; Motorola; Alcatel; Samsung; Siemens

E.I. Conference No.: 63769

Proceedings - 2002 International Conference on Third Generation Wireless and Beyond (Key Function of World Wireless Congress) (Proc. Int. Conf. Third Gener. Wireless Beyond Key Funct. World) (United States) 2002 (792-796)

Publication Date: 20021201

Publisher: Delson Group Inc.

Document Type: Conference Paper; Conference Proceeding **Record Type:** Abstract

Treatment: T; (Theoretical)

Language: English **Summary Language:** English

Number of References: 11

Ubiquitous computing scenarios that enable permanent access to data, services, and devices, have been studied for several years. Platforms for service discovery and provisioning, such as Jini, have been proposed. However, even simple scenarios, such as **finding** the closest **printer**, pose major difficulties when applied in heterogeneous access network environments. One of the problems encountered is that of the invisibility of services and devices that are located in different network domains. Since it is very likely in future wireless networks that different access technologies will prevail, this obstacle will continue to persist as well. This is because, different access networks are usually organized in separate IP network domains. This paper tackles the above problem by introducing a new scope definition for IP multicast, based on the physical proximity of network devices, in contrast to the conventional scope definitions in terms of logical distance. Furthermore, appropriate packet processing and forwarding mechanisms for physically scoped multicast are presented. Application scenarios are also outlined to demonstrate the applicability of the proposed delivery mechanism therein.

Descriptors: Data acquisition; Information technology; Internet; Network protocols; Packet switching; **Routers;** Topology; Wireless telecommunication systems; *Multicasting

Identifiers: Access **routers** (AR); Internet protocol (IP); Packet processing; Ubiquitous computing

16/5/2 (Item 2 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0010003147 IP Accession No: 200808-71-1102672; 200808-61-1203027; 20081062495; A08-99-1165385

Selective computer-generated information distribution system by computer peripheral emulation and use

French, Donald H
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=5437024.PN.&OS=pn/5437024&RS=PN/5437024>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

An information distribution system operative for receiving a report in the form of a **printer protocol**-formatted digital data stream from a report source, **identifying** the report as being of particular classes and/or subclasses, identifying at least one intended recipient of the report from data contained in the report, and automatically distributing the report to at least one identified intended report recipient. The system includes a microcomputer-based controller having an input/output interface that emulates a printer interface so that the system appears as a printer resource when connected to the report source. The controller receives a report, and using positional and/or reference cues contained in the report, obtains identifying information as to intended report recipients. The identifying information is used to look up destination information relating to the recipient, such as the recipient's facsimile machine telephone number, in a database. The controller is automatically operative to queue the report, after stripping printer control and escape codes, for transmission to the intended recipient, utilizing a facsimile machine, fax board, or other data communications device connected to the controller.

Descriptors: Printers; Databases; Digital data; Stripping; Fax; Control systems; Streams ; Transmissions (machine elements); Queues; Telephones; Cues

Subj Catg: 71, General and Nonclassified; 61, Design Principles; 99, General

20/5/1 (Item 1 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0011785947 IP Accession No: 200904-71-0954242; 200904-61-0968552; 20090941032; A09-99-0942747

Multi-tiered virtual local area network (VLAN) domain mapping mechanism

De Silva, Suran S; Finn, Norman W
, USA

Publisher Url: [http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=74 99456.PN.&OS=pn/7499456&RS=PN/7499456](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=74%2099456.PN.&OS=pn/7499456&RS=PN/7499456)

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

In one embodiment, a first port of a device provides connectivity to a customer network and a second port of the device provides connectivity to a provider network. Frame mapping logic **associated** with the first **port** processes a network message received at the first port and accesses a **Virtual Local Area Network (VLAN)** mapping data structure that maps customer **VLAN** designations used in the customer network to provider **VLAN** designations used in the provider network. Frame mapping logic uses the **VLAN** mapping data structure to associate the received network message with a particular provider **VLAN** designation based upon the received network message's particular customer **VLAN** designation. The received network message is then passed toward the second port.

Descriptors: Networks; **VLAN**; Ports; Mapping; Messages; **Virtual local area networks**; Devices; Frames; Data structures; Logic; Maps

Subj Catg: 71, General and Nonclassified; 61, Design Principles; 99, General

20/5/4 (Item 4 from file: 23)

DIALOG(R)File 23: CSA Technology Research Database

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0009418343 IP Accession No: 200806-71-693378; 200806-61-795662; 2008667016; A08-99-771048

Interswitch link mechanism for connecting high-performance network switches

Edsall, Tom; Finn, Norman

, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=5742604.PN.&OS=pn/5742604&RS=PN/5742604>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

An encapsulation mechanism efficiently transports packets between ports of different switches in a network on the basis of, inter alia, **virtual local area network (VLAN) associations** among those **ports**. The switches are preferably interconnected by a novel interswitch link (ISL) mechanism that appends ISL destination and source information, along with ISL error detection information, to **VLAN-modified** packets. The ISL mechanism keeps the **VLAN** associations of the packets intact during transfer between the switches in accordance with a high-performance switching bus architecture.

Descriptors: Switches; **VLAN**; Ports; Networks; Switching theory; Encapsulation; **Virtual local area networks**; Switching; Error detection; Transport; Joining; Buses (vehicles); Architecture

Subj Catg: 71, General and Nonclassified; 61, Design Principles; 99, General

20/5/6 (Item 6 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0008868538 IP Accession No: 200804-71-311135; 200804-61-321518; 2008298214; A08-99-310105
Multiple VLAN architecture system

McCloghrie, Keith; James, Bernard R; Young, Christopher; Finn, Norman W
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=6035105.PN.&OS=pn/6035105&RS=PN/6035105>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

A system in which a single **VLAN** architecture spans multiple **VLAN** transport protocols and technologies, including a method and system in which multiple different **VLANs** may be combined in a single enterprise network. Each LAN-switch in the system identifies each frame with an identifier, and associates that identifier with particular **VLAN** identifiers for each type of **VLAN** technology. When a frame is bridged or routed from a first type of **VLAN** to a second type of **VLAN**, the first **VLAN** encapsulation is removed and the second **VLAN** encapsulation is added, with appropriate change in the **VLAN** identifier for the frame or packet. The identifier may also be implicit for the frame, such as when a particular set of sender's MAC addresses are identified with a particular **VLAN**. Individual **VLANs**, of whatever architecture, may be added, configured or reconfigured, modified, or deleted, using control tools associated with the multiple **VLAN** architecture system. Individual **ports** may be **associated** with particular **VLANs**, or may be designated 'dynamic' so that frames or packets **associated** with those **ports** are **associated** with particular **VLANs** in response to source or destination addresses or other information.

Descriptors: **VLAN**; Frames; Architecture; Encapsulation; Ports; Dynamical systems; Control systems; Transport; Protocol (computers); Networks; Dynamics

Subj Catg: 71, General and Nonclassified; 61, Design Principles; 99, General

25/5/3 (Item 2 from file: 23)
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System for management of equipment deployed behind firewalls

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Abstract:

An element management system enables a network management server to provide a variable value to a management information base of a managed device independent of whether the managed device is served by a network address translation firewall. The element management system comprises an SNMP message manager which **receives** periodic heart beat **frames** from the managed device and stored identification of a heart beat channel in association with identification of the managed device in a registration **table**. The heart beat channel comprises the source socket and destination socket of the heart beat frame. The SNMP message manager further uniquely **associates** an **assigned** UDP **port** number with the managed device and provides the unique association of the **assigned** UDP **port** and the managed device to the network management server. The SNMP message manager further receives an SNMP Set from the network management server embodied as an IP frame addressed to the **assigned** UDP **port** number, looks up the managed device associated with the **assigned** UDP **port** number, and sends the SNMP Set to the managed device using the heartbeat channel.

Descriptors: Devices; Management; Networks; Computer networks; Heart; Protocol (computers); Ports; Channels; Servers; Servers (computers); Messages; Frames; Firewalls; Sockets; Management systems; IP (Internet Protocol); **Tables** (data); Translations

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